

Touchardia angusta (Urticaceae)

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The genus *Touchardia* of the Urticaceae has been considered monotypic and with its only species, *T. latifolia* Gaud., occurring on all the major Hawaiian Islands. Its stem contains a tube of long, pliant, long lasting fibers. These were prized and much used by the Hawaiian people who called the plant "olonā." It is here indicated that a second species of the genus occurs on the island of Hawaii.

Touchardia angusta sp. nov.

Diagnosis Holotypi: Frutex dioecius est, illis masculis 1-2 m altis, caulibus hirsutulis, stipulis 4.5-5.5 cm longis hirsutulis, petiolis 7-20 mm longis hirsutulis, laminis 13-29 X 5-11 cm chartaceis lanceolatis acuminatis, infra in nervis puberulis, pedunculis masculis 10-25 mm longis, capitibus 1-2 cm diametro globosis, tubo calycis 2 mm longis, 5 lobis 2-2.2 mm longis lanceolatis, filamentis 2.5 mm longis, antheris 1 mm longis subglobosis.

Diagnosis of Holotype: Shrub dioecious; staminate plants 1-2 m tall, mostly single stemmed, these hirsutulous; bundle scar solitary; stipules 4.5-5.5 cm long, appressed hirsutulous; petioles 7-20 mm long, appressed hirsutulous; blades 13-29 X 5-11 cm, chartaceous, lanceolate or elliptic lanceolate, acuminate, the margins undulate or crenulate towards the apex, below puberulent on the veins; staminate peduncles 10-25 mm long, axillary; heads 1-2 cm in diameter, globose; buds 2.5 mm in diameter; calyx tube 2 mm long; 5 lobes 2-2.2 mm long, lanceolate; filaments 2.5 mm long; anthers 1 mm long, subglobose.

Pistillate Plants: Habit similar; cyme 0.7-1 cm long; heads 4-7 mm in diameter, globose, green; flowers 150-200 in a head; each flower subtended by 3 bracts, the flower 2-2.5 mm long, whitish; calyx 1.5-1.9 mm long, oblanceoloid, the 4 lobes 0.7-0.8 mm long, oval, cucullate, glandular denticulate on the margins, the two outer the larger; ovary fusiform; in fruit the calyx becomes fleshy, orange, ellipsoid, berry-like, 3.5 X 2.5 mm; achene 1.5-2.1 mm, discoid, beaked.

Holotypus: Hawaiian Islands, Hawaii Island, Olaa, 15 3/4 Mile Road, rainforest, 1,800 ft alt., July

1, 1943, H. St. John 20,343 (BISH). Type examined.

Distribution: Hawaii Island, in rain forests from Olaa and Pahoa to Kilauea and Kulani, and in the Kohala Mountains.

Discussion: Touchardia angusta is related to T. latifolia Gaud., of the Hawaiian Islands, a species with the staminate plants with the blades ovate (or lance ovate), acute, below the veins hirsute to hirsutulous; floral bracts 2.5-3 mm long, lanceolate, from a truncate base, entire; calyx tube 1 mm long, cupuliform, and the lobes 1-1.5 mm long.

T. angusta has the blades lanceolate or elliptic lanceolate, acuminate, below the veins puberulent; floral bracts elliptic lanceolate; calyx tube 2 mm long, funnelform, and the lobes 2-2.2 mm long.